

Electronic Filing System (EFS) Data
Electronic Patent Application Submission
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EFS ID: 55662
Application ID: 10673971
Title of Invention: Directional Signal and Noise
Sensors for Borehole
Electromagnetic Telemetry
System
First Named Inventor: Paul Rodney
Domestic/Foreign Application: Domestic Application
Filing Date: 2003-09-29
Effective Receipt Date: 2004-02-17
Submission Type: Information Disclosure
Statement
Filing Type:
Confirmation number: 3957
Attorney Docket Number: 1391-25206




Total Fees Authorized:

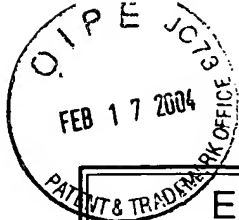
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Certificate Message Digest: 11388aceaa27580db0f64e30d9ea65c9c6de6cd5

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	Directional Signal and Noise Sensors for Borehole Electromagnetic Telemetry System									
Application Number: 10/673971 										
Date: 2003-09-29										
First Named Applicant: Paul F. Rodney										
Confirmation Number: 3957										
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<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Albert C. Metrailer Registered Number: 27,145</td><td>Albert C. Metrailer</td><td>Attorney</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Albert C. Metrailer Registered Number: 27,145	Albert C. Metrailer	Attorney		
Submitted by:	Elec. Sign.	Sign. Capacity								
Albert C. Metrailer Registered Number: 27,145	Albert C. Metrailer	Attorney								
<table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>1391-25206-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			Documents being submitted	Files	us-ids	1391-25206-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	1391-25206-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
Comments										



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Directional Signal and Noise Sensors for Borehole Electromagnetic Telemetry System
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Application Number: 10/673971



Confirmation Number: 3957

First Named Applicant: Paul Rodney

Attorney Docket Number: 1391-25206

Art Unit: 2831

Search string: (4199989 or 4215425 or 4878206 or 4980682
or 4992787 or 5289354 or 5467083 or 5565860
or 5627896 or 6023658 or 6188223 or
6285190).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4199989	1980-04-29	Forward et al.		73	430
	2	4215425	1980-07-29	Waggener		367	83
	3	4878206	1989-10-31	Grosso et al.		367	83
	4	4980682	1990-12-25	Klein et al.		340	854
	5	4992787	1991-02-12	Helm		340	854
	6	5289354	1994-02-22	Clayer et al.		367	82
	7	5467083	1995-11-14	McDonald et al.		340	854.6
	8	5565860	1996-10-15	Sakata et al.		340	854.8
	9	5627896	1997-05-06	Southward et al.		381	71
	10	6023658	2000-02-08	Jeffryes		702	16
	11	6188223	2001-02-13	Van Steenwyk et al.		324	370
	12	6285190	2001-09-04	Brune et al.		324	326

Signature

Examiner Name	Date

